Declassified in Part - Sanitized Copy Approved for Release 2012/08/28: CIA-RDP83-00415R012400170002-3

INTELLOFAX 29

FEB 1952 51-4AA

CENTRAL INTELLIGENCE AGENCY

CLASSIFICATION

SECRET/CONTROL - U.S. OFFICIALS ONLY

SECURITY INFORMATION

50X1-HUM

INFORMATION REPORT

REPORT

CD NO.

COUNTRY

Czechoslovakia

DATE DISTR.

20 August 1952

SUBJECT

New Diesel Engine

NO. OF PAGES

DATE OF INFO.

ACQUIRED

PLACE

CIRCULATE

NO. OF ENCLS.

SUPPLEMENT TO REPORT NO.

50X1-HUM

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 793 AND 794, OF THE U.S. CODE, AS AMENDED. ITS TRANSMISSION OR REVE-LATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON I ROHIBITED BY LAW. THE REPRODUCTION OF THIS FORM IS PROHIBITED

THIS IS UNEVALUATED INFORMATION

50X1-HUM

the motor described below is to be manufactured in a first series of 3,000 pieces for use in tanks. 50X1-HUM

2. The motor is a 12-cylinder V-engine, with 6 cylinders in line on each side, mounted at an angle of 50 degrees to one another. All cast components are made of duraluminum. Cooling is by water under forced circulation.

Cylinder bores Piston stroke 8 Total stroke volume &_ Compression ratios Medium effective pressure on pistons ? Crude oil with lowest estimation limit of 10,000 cal/kg. Oil consumption: Volume of water in engine:

Volume of oil in engine: Type of injection valves: Type of jet-supports: Type of injection pumps:

Opening pressure & Type of fuel filters: Type of air filters: Operating oil-pressures Overall length of motors Overall width of motors Overall Sheight of motors 170 190 mm. 51.8 liters

1 8 15.8 5.5 kg/sq. cm.

3.6 g/hp/hour 65 liters 40 kg.

Do - 150 - S-825 - PAL. VN-125 - S-140 - PAL

PVG Z 120 L 630 - PAL (1 piece) PVG Z 120 P 230 - PAL (1 piece)

270 - 290 atm.

2 pieces FD 3 BlN - PAL 4 pieces HEFA Z 75

2 atm.

2125 mm.

1050 mm. 1390 mm.

So far not established

CLASSIFICATION

Weight

SECRET/CONTROL _ U.S. OFFICIALS ONLY

STATE		NAVY	x	NSRB	DISTRIBUTION				 \neg
ARMY	x	AIR	ж	FBI .	OSI	ж			

50X1-HUM

50X1-HUM

SECRET/CONTROL - U.S. OFFICIALS ONLY

-2-

3. The following data are reported for this motor:

N	Neigh	Kg/k/h	Mk kgm	Np	k	Mk
/ 800	261	164	232	282.5	168.3	252.1
900	297	161.8	235.4	323	165.2	255。9
1000	331	161	236	360	164.8	256.8
1100	361	162,1	233.9	393	166	254.8
1200	385	165.5	229,1	420.5	169.2	249.5
1300	403	171	222,1	442	174.5	242
1360	410	175	215.5	450	178,2	236 8

Explanation to the above abbreviations:

N - rotation per minute

Np - performance under overloading conditions

Nnom - Nominal performance

k - Specific consumption of crude oil

Mk - Torque effect on crankshaft.

SECRET/CONTROL - U.S. OFFICIALS ONLY

50X1-HUM

